

Amendments to the Drawings:

The attached sheet of drawings includes changes to Fig. 2. This sheet, which includes Figs. 1 and 2, replace the original sheet including Figs. 1 and 2. In Fig.2, the embodiment has been amended to include a double wall between the reaction chamber 1 and separator 2.

Attachment: Replacement Sheet
Annotated Sheet Showing Changes

REMARKS

Claims 59-93 are pending in the present application. Claim 59, 75, and 90 has been amended.

1. The drawings were objected to under 37 CFR 1.83(a) for failing to show every feature of the invention specified in the claims. Claims 75 and 90 have been amended to clarify the claimed invention. These limitations are provided in the existing drawings. Further, Fig. 2 of the drawings has been amended to include the claimed feature (double wall) of the invention (claim 61). Applicants submit that this objection is now moot.

2. Applicants note that the Office Action date June 24, 2008 did not specifically address the reason for rejection or allowance of claims 76-80 in the Detailed Action. In a telephone conference on July 22, 2008 between the Examiner and the undersigned Applicants' Attorney, the Examiner instructed the Applicants' Attorney to consider these claims allowed when responding to this Office Action.

3. Claims 59, 60, 62-65, 72, and 87 stand rejected under 35 U.S.C. §102(e) as being anticipated by Dietz (5,771,844)

Regarding independent claims 59, the Examiner contends that Dietz shows all the limitations of this claim. Applicant respectfully traverses the Examiner's rejection in light of the amendment to claim 59, which clarifies the claimed invention.

Specifically, newly amended claim 59 defines the present invention as a circulating fluidized bed reactor that includes a reaction chamber, a centrifugal separator and an acceleration duct. The claimed invention further includes an acceleration duct disposed between the reaction chamber and the centrifugal separator, wherein at least part of the acceleration duct is disposed within the reaction chamber. Further, the reaction chamber and the centrifugal separator have a common wall therebetween, as newly amended.

Applicant contends that Dietz does not show such a circulating fluidized bed reactor as defined in claim 59. For instance, Dietz does not show the reaction chamber and the centrifugal separator having a common wall therebetween, as newly recited in claim 59. In contrast, Dietz shows the furnace 14 spaced from the cyclone 16.

Applicant therefore respectively asserts that claim 59 is patentable over Dietz for at least these reasons. It is respectfully requested that this claim be reconsidered and allowed.

4. Claims 60, 62-65, and 72 variously depend on independent claim 59, and therefore, are patentable over Dietz for at least the reasons provided hereinbefore. It is respectfully requested that these claims be reconsidered and allowed.

5. Claim 87 depends on allowed independent claim 76, and therefore, is patentable over Dietz for at least this reason. It is respectfully requested that this claim be allowed.

6. Claims 61, 66, and 81 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Dietz (5,771,844).

Claims 61 and 66 depend on independent claim 59, and therefore, are patentable over Dietz for at least the reasons provided hereinbefore. It is respectfully requested that these claims be reconsidered and allowed.

7. Claim 81 depends on allowed independent claim 76, and therefore, is patentable over Dietz for at least this reason. It is respectfully requested that this claim be allowed.

8. Claims 67-70, 73-75, 82-85, and 88-90 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Baglione et al. (6,779,492) in view of Dietz (5,771,844).

Claims 67-70 and 73-75 depend on independent claim 59, and therefore, are patentable over Baglione et al. in view of Dietz for at least the reasons provided hereinbefore. It is respectfully requested that these claims be reconsidered and allowed.

9. Claims 82-85 and 88-90 depend on allowed independent claim 76, and therefore, are patentable over Baglione et al. in view of Dietz for at least this reason. It is respectfully requested that these claims be allowed.

10. Claims 71, 86, and 91-93 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Dietz (5,771,844) in view of Baglione et al. (6,779,492).

Claim 71 depends on independent claim 59, and therefore, is patentable over Dietz in view of Baglione et al. for at least the reasons provided hereinbefore. It is respectfully requested that this claim be reconsidered and allowed.

11. Claim 86 depends on allowed independent claim 76, and therefore, is patentable over Dietz in view of Baglione et al. for at least this reason. It is respectfully requested that this claim be allowed.

12. Regarding independent claim 91, Examiner contends that Dietz discloses the primary inventive concept, except that Dietz does not specifically teach a deflector disposed within the reaction chamber. Examiner then finds Baglione et al. teaches a circulating fluidized bed reactor with an acceleration duct connecting a reaction chamber with a centrifugal separator, wherein a deflector (24) is formed in the reaction chamber that directs particles to the acceleration duct. Examiner concludes that “[I]t would have been obvious at the time of the invention was made to a person having ordinary skill in the art to include a deflector as taught by Baglione et al. for the purpose of directing circulating particles toward the acceleration duct as is well known in the art.”

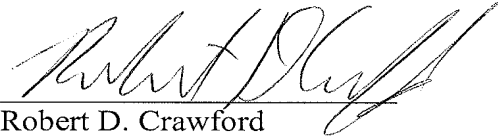
After review of Baglione et al., Applicants can find no suggestion, teaching or showing of a deflector as claimed by Applicant. Examiner notes the deflector (24) shows such a deflector as claimed by Applicant, however, the reference numeral 24 identifies the acceleration duct, not a deflector. Even if reference numeral 24 is pointing to a deflector, this element is not disposed in the reaction chamber as claimed. Therefore, Applicant submits that claim 91 is patentable for at least these reasons, and request that this claim be allowed.

13. Claims 92 and 93 depend on independent claim 91, and therefore, are patentable over Dietz in view of Baglione et al. for at least the reasons provided hereinbefore. It is respectfully requested that these claims be reconsidered and allowed.

14. A petition for an additional two months extension of time under 37 CFR 1.136 is submitted herewith. Please charge the fee of **\$490.00** for the two (2) months extension of time. Any deficiency or overpayment should be charged or credited to Deposit Account No. 03-2578 Order No. VA30408.

Respectfully submitted,

BAGLIONE



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FIGURE 1

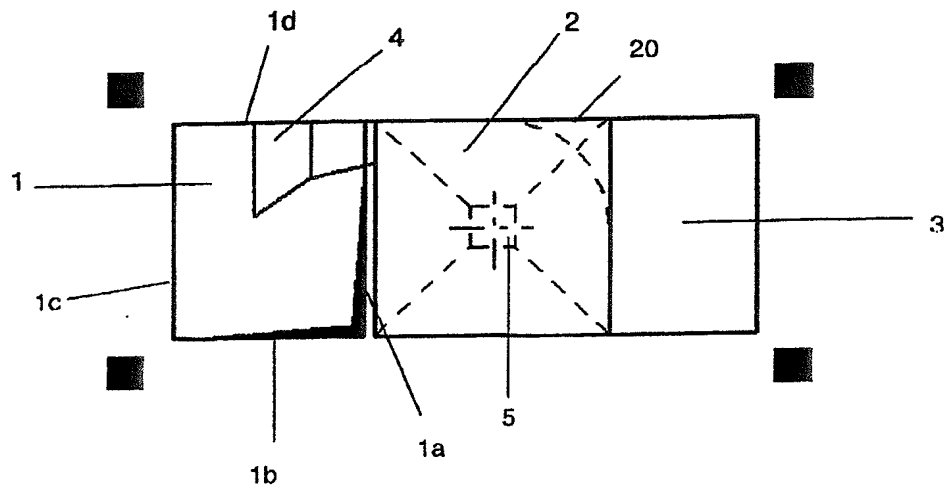


FIGURE 2

